

Title (en)  
Method for automatic piloting of a rotary wing aircraft comprising at least one thruster propeller, associated automatic piloting device and aircraft

Title (de)  
Selbststeuerungsverfahren eines Drehflügelflugzeugs, das mindestens einen Druckpropeller umfasst, entsprechende Autopilot und Flugzeug

Title (fr)  
PROCEDE DE PILOTAGE AUTOMATIQUE D'UN AERONEF A VOILURE TOURNANTE COMPRENANT AU MOINS UNE HELICE PROPULSIVE, DISPOSITIF DE PILOTAGE AUTOMATIQUE ET AERONEF ASSOCIES

Publication  
**EP 2546715 B1 20171108 (FR)**

Application  
**EP 12004693 A 20120622**

Priority  
FR 1102191 A 20110712

Abstract (en)  
[origin: EP2546715A1] The method involves providing a rotor (3) with a set of blades (3'), and maintaining aerodynamic angle of incidence of a rotary wing aircraft i.e. helicopter, equal to a reference angle of incidence by automatically operating a collective pitch of the set of blades. The reference angle of incidence is equal to current aerodynamic incidence of the aircraft at the time of commitment of a mode of assisted piloting of the aircraft. Value of the reference angle of incidence is modified. An independent claim is also included for a device for automatic piloting of a rotary wing aircraft.

IPC 8 full level  
**G05D 1/00** (2006.01); **B64C 27/57** (2006.01); **B64D 45/00** (2006.01); **G05D 1/08** (2006.01)

CPC (source: EP US)  
**B64C 27/22** (2013.01 - EP US); **B64C 27/57** (2013.01 - EP US); **B64D 45/00** (2013.01 - US); **G05D 1/0858** (2024.01 - EP US)

Cited by  
FR3018364A1; US9418564B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2546715 A1 20130116; EP 2546715 B1 20171108**; FR 2977948 A1 20130118; FR 2977948 B1 20141107; RU 2012126956 A 20140110; RU 2513189 C2 20140420; US 10023306 B2 20180717; US 10144508 B2 20181204; US 2013175385 A1 20130711; US 2018072411 A1 20180315

DOCDB simple family (application)  
**EP 12004693 A 20120622**; FR 1102191 A 20110712; RU 2012126956 A 20120627; US 201213543957 A 20120709; US 201715817888 A 20171120